

### **Abstract of the Disclosure**

Methods and apparatus for treating a liquid bath of oxygen. A liquid bath of at least 70 mol% of oxygen is located at the base of a cryogenic distillation column. The bath is continuously boiled by an aluminum reboiler. A portion of the liquid bath is purged to prevent a build up of inflammable impurities in the bath. A portion of the purge is sent to a second reboiler, which is less inflammable than the first reboiler. Oxygen boiled by the second reboiler is sent back to the column, and a portion of the oxygen rich liquid bath treated by the second reboiler is also purged. The invention also relates to an apparatus of carrying out this method.